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AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

1. **(Currently Amended)** An autonomous garment with active thermal control and powered by solar cells, comprising:
 - a plurality of solar cells;
 - a plurality of batteries;
 - a plurality of resistors;
 - a refrigeration unit embedded in the garment to produce a refrigeration cycle;
 - a plurality of Peltier cells configured to produce or remove heat in the same cell by changing the direction of current in the cell;
 - a microcontroller;
 - a plurality of refrigeration pipes to distribute thermal flow from the refrigeration unit across the garment, an electric bus connector, a plurality of thermal sensors, and a plurality of plugs to power devices external to the garment.
2. **(Currently Amended)** The garment of claim 1, wherein the solar cells are connected to [[an]] the electric bus connector, are on the outer shell of the garment and include optical parts, a protection layer, and filters.
3. **(Currently Amended)** The garment of claim 1, wherein the batteries are embedded in the garment[[,]] and are connected to the electric bus connector.
4. **(Currently Amended)** The garment of claim 1, wherein the set--of resistors are embedded in the garment, [[and]] are connected to the electric bus connector, and are distributed in the garment for delivery of heat.
5. **(Currently Amended)** The garment of claim 1, wherein the Peltier cells are embedded in the garment, [[and]] are connected to the electric bus connector, and are distributed in the garment to produce heat and cold.

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6. **(Currently Amended)** The garment of claim 1, wherein the refrigeration [[cycle]] unit is connected to the electric bus connector[[,]] and includes to the refrigeration pipes distributed in the garment for cooling.
7. **(Currently Amended)** The garment of claim 1, comprising wherein a device connected to the electric bus connectoris [[and]] selected from the group consisting of: thermal sensors, luminous and sonorous signalling appliances, positioning systems, and one or more of the plurality of power plugs.
8. **(Currently Amended)** The garment of claim 1, comprising—a wherein the microcontroller is connected to the resistors, the Peliter cells, the batteries, the solar cells, and the refrigeration [[cycle]] unit via the electric bus connector, for the active thermal control of the garment.
9. **(Currently Amended)** The garment of claim 1, wherein the microcontroller includes means to display data and software to control [[the]] thermal parameters.
10. **(Currently Amended)** The garment according to of claim 1, wherein the solar cells are adapted to convert radiation from fire to electric power.
11. **(Cancelled)**
12. **(Currently Amended)** The system garment of claim 2, wherein the filters have a geometry optimized for the solar spectrum.